



## **NORTH CAROLINA**

Department of Transportation

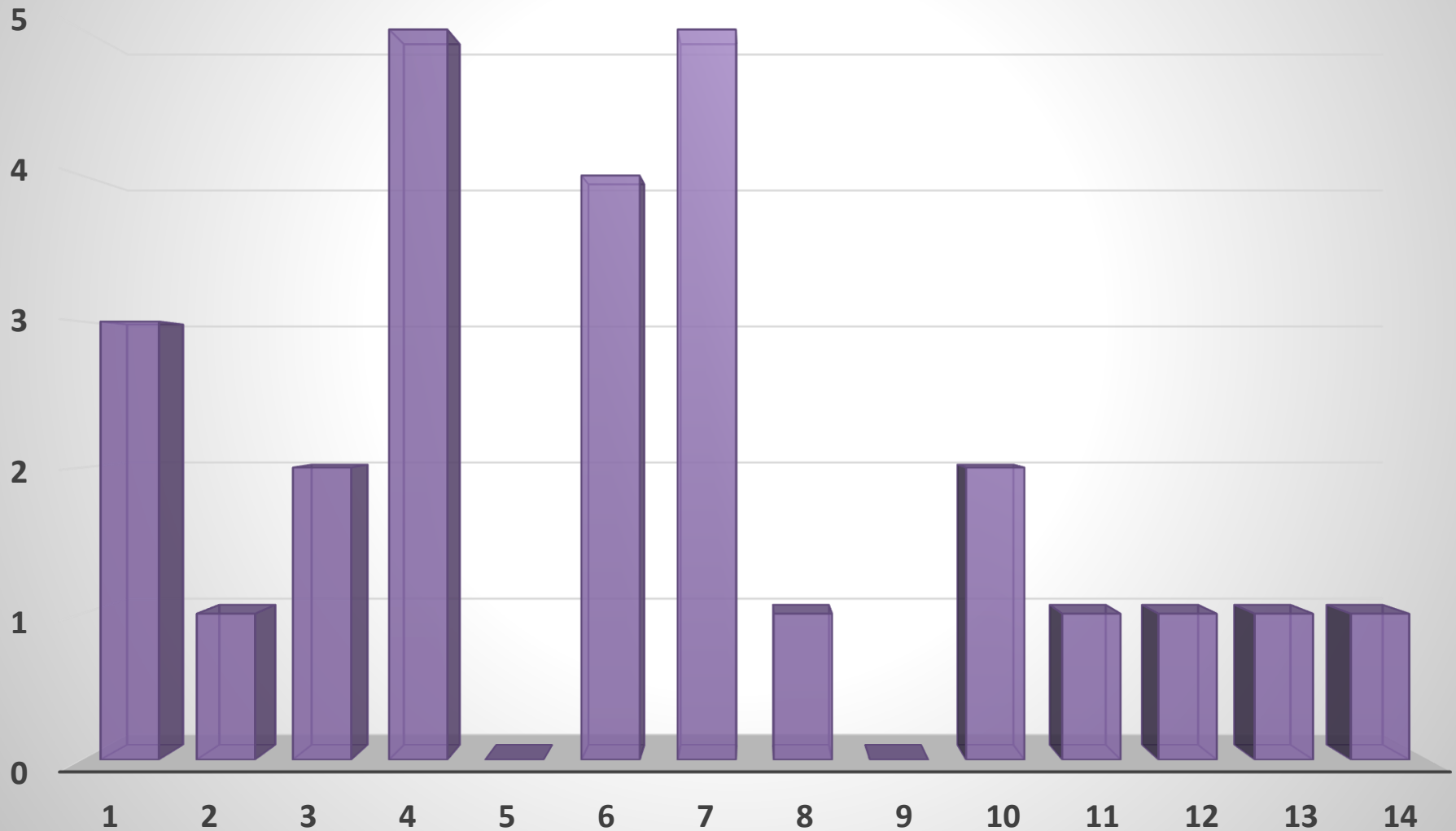


# 2018 DCE Mtg. - Structures

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October 24, 2018

## PPC Overlay Projects by Division



# Polyester Polymer Concrete

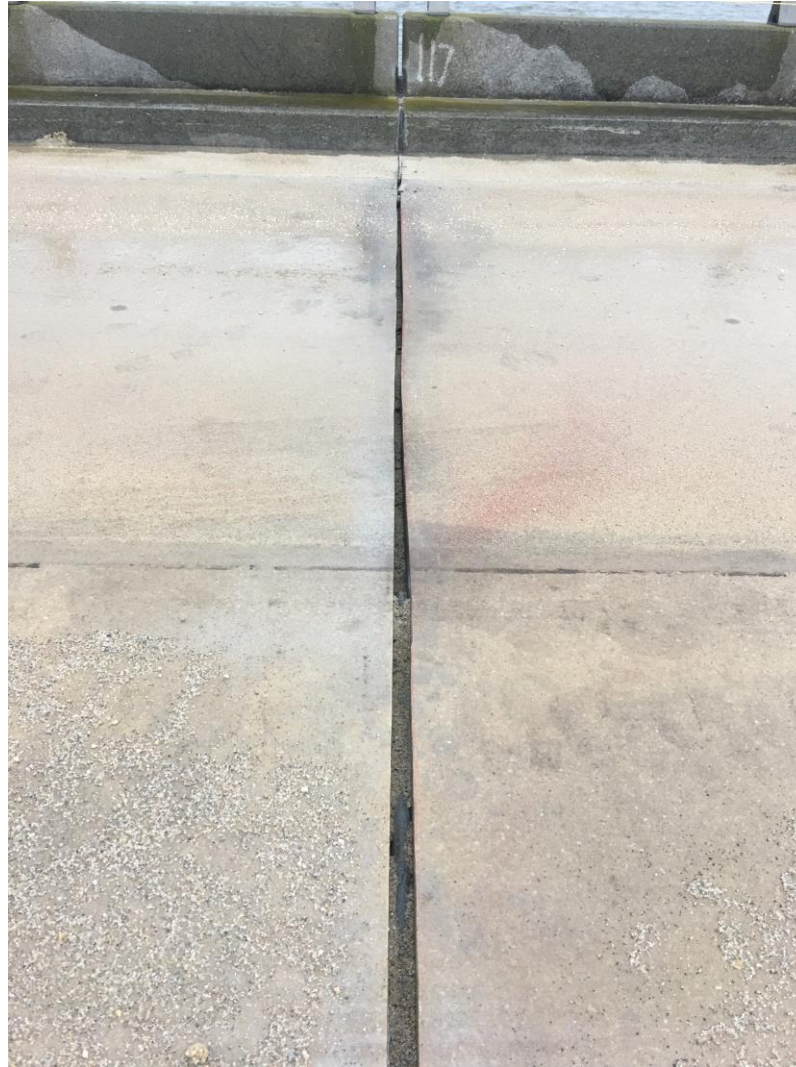
- New to almost every office
- Covered in Winter Structures Training
- Reoccurring issues
  - Manufacturer's Rep Onsite?

# Scarification of Gutterline





# Expansion Joints

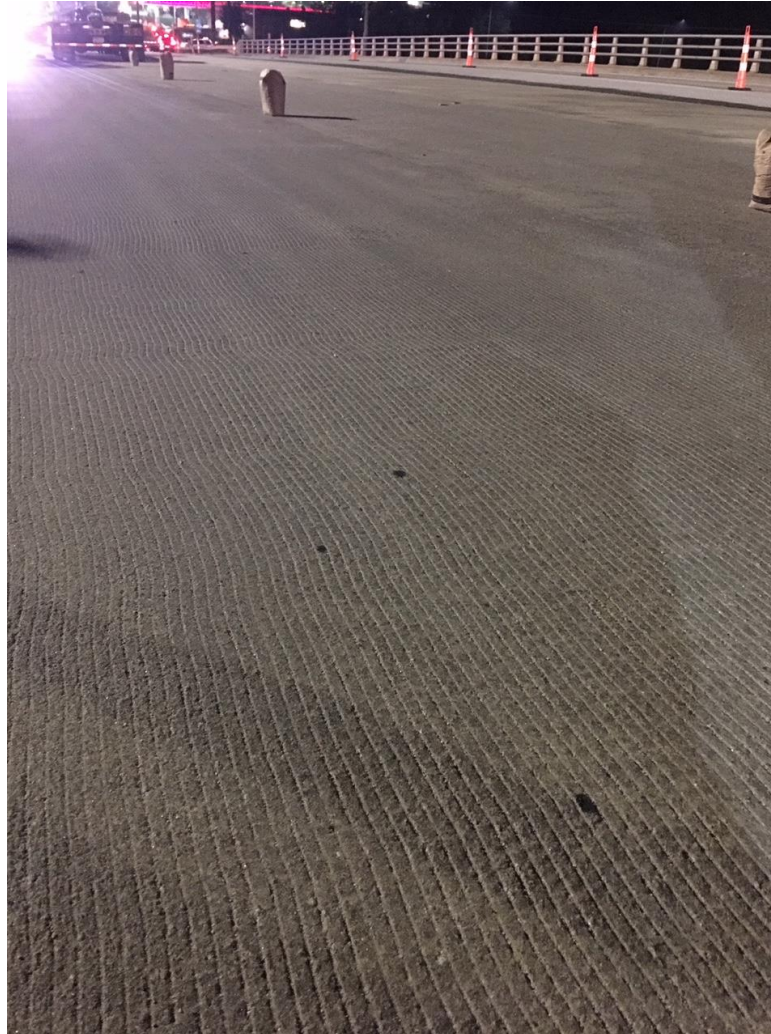


# Shotblasting



After shotblasting, traffic not allowed prior to overlay.

# Grooving vs Tining





# PPC with Stringline





# Structure Surveying



The diagram illustrates a bridge centerline (red line) with four bridge piers (WP) and two abutments (P.O.T.). A purple line represents the survey reference, and green lines represent the parallel offset reference lines. The distance between the survey reference and the bridge centerline is labeled "Measured Distance". The distance between the parallel offset reference lines is also labeled "Measured Distance". The diagram shows the layout of the bridge and the survey points used for construction.

- Bridges should not be  
laid out using radial  
stakeout unless prior  
approval has been  
obtained.**

☒ Fill Face ☒  
End Bent #1

# Structure Completion





# Structure Completion

- Send emails of notices to [SIA@ncdot.gov](mailto:SIA@ncdot.gov)
- Include in the email:
  - Hyperlink to the form
  - Contract number
- Don't forget to Accept the document
- Upload as built
- Attach shop and working drawings to the email

# Bridge Deck Rideability

- Rainhart Profilograph – Outdated
  - Zero Inch Blanking Band
    - Almost guarantees failure and need to diamond grind
    - Can use an Inertial Profiler to simulate Rainhart

# Bridge Deck Rideability

- International Roughness Index (IRI)
  - Draft Provision
  - Divisions can request to use in lieu of Rainhart
  - Goal to replace Rainhart in Special Provisions
- Corrective Diamond Grinding
  - Pay for under Grooving Pay Item